Tenth Annual Industrial Control System Security (ICSS) Workshop

The 10th Industrial Control System Security (ICSS) Workshop will be held on Tuesday, December 10, 2024, in conjunction with the Annual Computer Security Applications Conference (ACSAC). ACSAC will be held in Waikiki, Hawaii.

Call for Papers. Supervisory control and data acquisition (SCADA) and industrial control systems (ICS) monitor and control a wide range of critical industrial and infrastructure processes, such as water treatment, power generation and transmission, oil and gas refining, and manufacturing. Furthermore, the Industrial Internet of Things (IIoT) is rapidly expanding the interconnectivity of ICS environments and introducing many new threats. These environments have been identified as a key target of more generic threats (ransomware, e.g., CL0p), along with more recent tailored nation-state threats targeting electric transmission and distribution systems (e.g., COSMICENERGY).

The essential requirement for high availability in SCADA and industrial control systems, along with the use of resource-constrained computing devices, legacy operating systems, and proprietary software applications, limits the applicability of traditional information security solutions. The goal of this workshop is to explore new techniques that are more effective and efficient at improving the security and resilience of critical control systems in the face of emerging threats. Papers of interest, including (but not limited to) the following subject categories, are solicited:

- IIoT security
- Intrusion detection and prevention for ICS
- Emerging threats to ICS
- Vulnerability analysis and risk management
- Digital forensics for ICS/PLCs
- Techniques for engineering high(er) assurance ICSs
- ICS-oriented cybersecurity education
- Performance evaluation of security methods and tools in control systems
- Innovative ICS/SCADA testbed designs
- Supply chain vulnerabilities and protections
- Modeling and formal verification of ICS security and resilience properties
- Machine learning for ICS

Technical Paper Submissions

Please ensure that your submission consists of a PDF file of no more than 10 double-column pages, excluding well-marked references and appendices limited to a maximum of 5 pages. The full PDF document must not exceed a total of 15 pages. Please note that PC members are not required to read the appendices and that page limits will be strictly enforced.

PAPER FORMAT: use the IEEE template for your ACSAC paper. You can find the needed files here: https://www.ieee.org/conferences/publishing/templates.html. If you are using Latex, use \documentclass[conference,compsoc]{IEEEtran} as your document class.

All submissions must be ***anonymous***. Author names and affiliations must not be included in the PDF submission. Authors can cite and refer to their own prior work but must do so in the third person as if it was written by someone else.

The submission website is https://easychair.org/conferences/?conf=icss240

IEEE Publication / Proceedings

It is our intent to have accepted papers published by IEEE Computer Society Conference Publishing Services (CPS) and to appear in the Computer Society Digital Library and IEEE Xplore® in an ACSAC Workshops 2024 volume accompanying the main ACSAC 2024 proceedings. We are in the process of transitioning both the conference and workshop to technical sponsorship by the IEEE Computer Society's Technical Community on Security and Privacy (TCSP), and we expect gaining approval before the proceedings are compiled.

Important Date

Submission Deadline:	~~August 12, 2024~~ **September 12, 2024**
Acceptance Notification:	September 30, 2024
Final Manuscript due:	October 15, 2024
Workshop Date:	December 10, 2024

Further details about the workshop can be found on the workshop website:

https://www.acsac.org/2024/workshops/icss/

Contact the workshop organizers at icss240@easychair.org

Organizing Committees

General Co-Chairs:
Harvey Rubinovitz, The MITRE Corporation
Greg Shannon, Idaho National Laboratory

Program Co-Chairs:
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Quanyan Zhu, New York University
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Indrajit Ray, Colorado State University

Workshop Registration
If you are interested in attending, please check off the appropriate box on the conference registration form and add in the Industrial Control System Security (ICSS) Workshop fee.

For accepted papers, at least one author must register and attend.